CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2008 Certified Company

JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/W.No.11/SC/CEMENT/2012-13

Date: 16.03.2013

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
AGENCY	:	**M/s. Sathya Constructions,** Contractor, Bangalore.
NAME OF THE WORK	:	Construction of Culvert and SSM Secondary Nala from Seenappa Garden to Singapura Paradise Rajakaluve in Ward No.11, BBMP, Bangalore.
REFERENCE	:	AEE/VP/WO/300/2012-13 Dated: 14.03.2013
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	a) Initial Setting Time	IS-4031 (Part -5)	125 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	480 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	28.00 %	-

Note:

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Job No.: CTCE/BBMP/W.No.11/SC/SAND/2012-13 : 16.03.2013

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **M/s. Sathya Constructions,** Contractor, Bangalore.

Name of Work : Construction of Culvert and SSM Secondary Nala from Seenappa Garden to Singapura Paradise Rajakaluve in Ward No.11, BBMP, Bangalore.

Reference : AEE/VP/WO/300/2012-13 Dated: 14.03.2013

Date of Testing : 16.03.2013

Material : Sand Total Wt. of Aggregates in gms **2000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	102	5.10	5.10	94.9	90-100
2.36	215	10.75	15.85	84.2	75-100
1.18	496	24.80	40.65	59.4	55-90
600 Micron	423	21.15	61.80	38.2	35-59
300 Micron	487	24.35	86.15	13.9	8-30
150 Micron	225	11.25	97.40	2.6	0-10

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Job No.: CTCE/BBMP/W.No.11/SC/AGG/2012-13 : 16.03.2013

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **M/s. Sathya Constructions,** Contractor, Bangalore.

Name of Work : Construction of Culvert and SSM Secondary Nala from Seenappa Garden to Singapura Paradise Rajakaluve in Ward No.11, BBMP, Bangalore.

Reference : AEE/VP/WO/300/2012-13 Dated: 14.03.2013

Date of Testing : 16.03.2013

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **26000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	980	3.77	3.77	96.23	95-100
20	15925	61.25	65.02	34.98	30-70
10	6230	23.96	88.98	11.02	10-35
4.75	2385	9.17	98.15	1.85	0-5

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Job No.: CTCE/BBMP/W.No.11/SC/STEEL/2012-13

16.03.2013

TEST REPORT ON REINFORCEMENT STEEL

Client	:	**Asst. Executive Engineer** Vidyaranyapura Subdivision, BBMP, Bangalore.
Agency	:	**M/s. Sathya Constructions,** Contractor, Bangalore.
Name of the work	:	Construction of Culvert and SSM Secondary Nala from Seenappa Garden to Singapura Paradise Rajakaluve in Ward No.11, BBMP, Bangalore.
Reference	:	AEE/VP/WO/300/2012-13 Dated: 14.03.2013
Date of Test	:	16.03.2013
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	10	0.62	513	554	13.30	O.K	O.K

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Job No.: CTCE/BBMP/W.No.11/SC/CUBE/2012-13 10.05.2013

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	: **M/s. Sathya Constructions,** Contractor, Bangalore.
Name of the work	: Construction of Culvert and SSM Secondary Nala from Seenappa Garden to Singapura Paradise Rajakaluve in Ward No.11, BBMP, Bangalore.
Reference	: AEE/VP/WO/300/2012-13 Dated: 14.03.2013
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.04.2013	10.05.2013	8.269	517.9	23.02
2	12.04.2013	10.05.2013	8.367	526.8	23.41
3	12.04.2013	10.05.2013	8.425	534.2	23.74

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